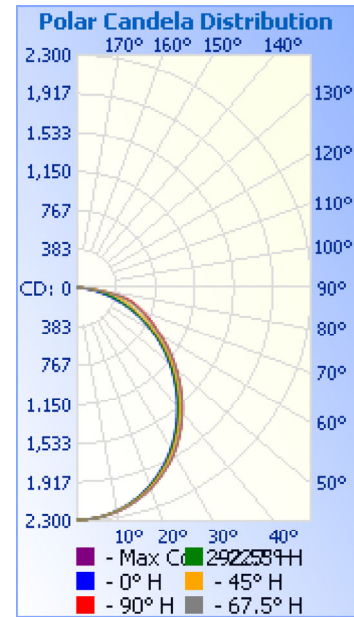


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Troffer 2x4 50W TR24DN - 277V  
**Manufacturer:** SARIN Energy Inc.  
**Luminaire:** SES-TR24DN40-4000- 50 277V  
**Lamp Output:** Total luminaire Lumens: 6235.4  
**Max Candela:** 2,296.4 at Horizontal: 292.5°, Vertical: 1°  
**Input Wattage:** 48.9  
**Luminous Opening:** Point  
**Test Date:** 2017-11-17  
**Test Lab:** Standard-Tech Co. Ltd  
**Photometry :** Type C  
**Nema Type:** 7 X 7

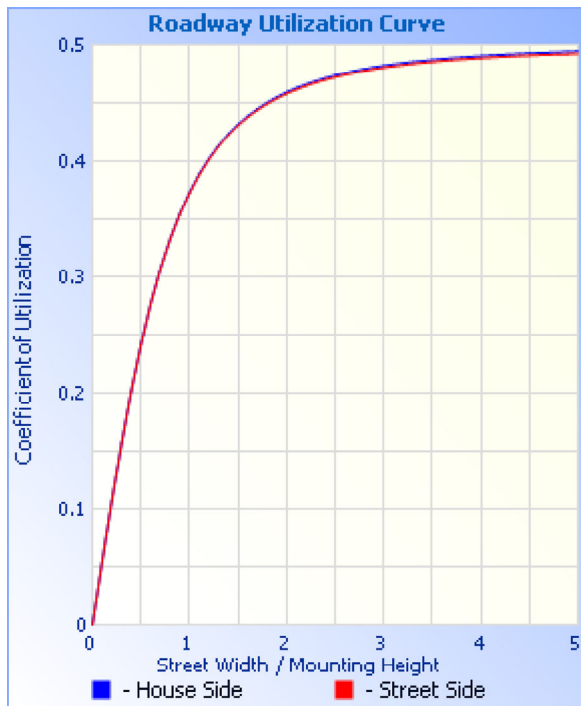
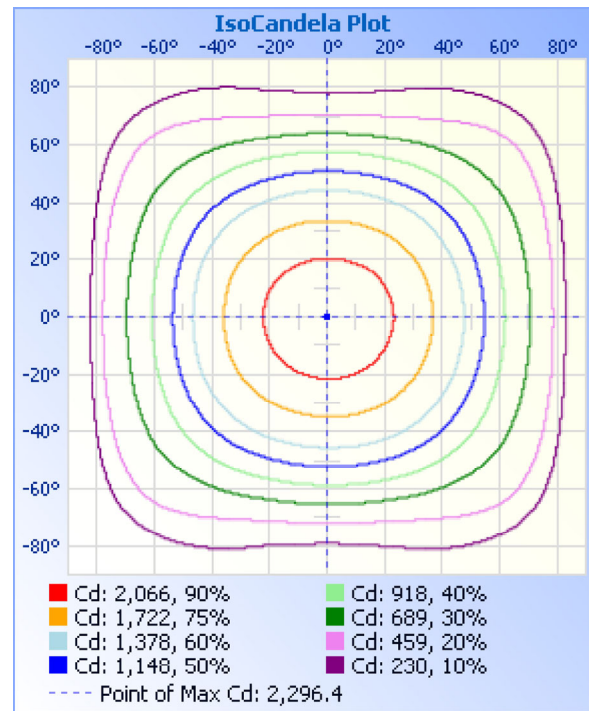
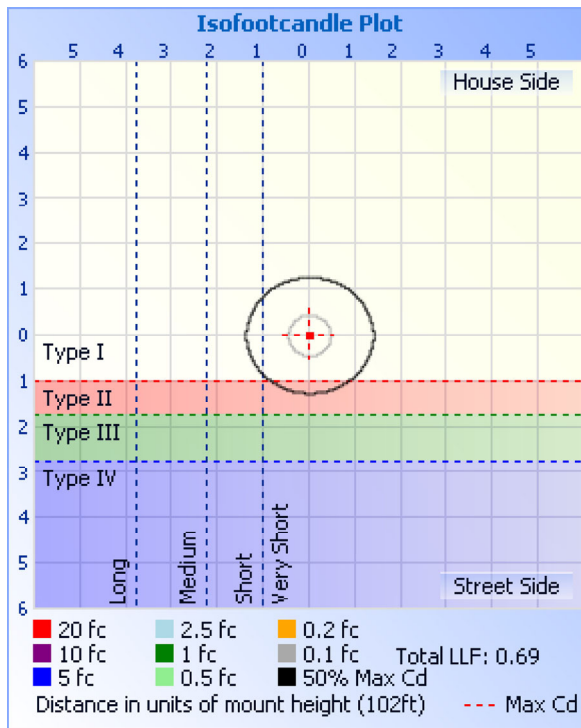


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	1.5	
Max Cd, 80 to <90 Deg:	382.9	
	Lumens	% Lamp
Downward Street Side:	3,106.5	49.8%
Downward House Side:	3,127.1	50.2%
Downward Total:	6,233.6	100%
Upward Street Side:	1.3	0%
Upward House Side:	1.1	0%
Upward Total:	2.4	0%
Total Lumens:	6,236.0	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.7%	6,152.9	165.2	156.9
Beam (50%):	67.5%	4,210.3	108.4	103.1
Total:	100%	6,233.0		

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,752.0	28.1%
0-40	2,833.9	45.4%
0-60	4,881.9	78.3%
60-90	1,351.1	21.7%
70-100	615.1	9.9%
90-120	1.5	0%
0-90	6,233.0	100%
90-180	2.4	0%
0-180	6,235.4	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	216.8	3.5%	90-100	0.6	0%
10-20	616.1	9.9%	100-110	0.5	0%
20-30	919.1	14.7%	110-120	0.4	0%
30-40	1,081.9	17.4%	120-130	0.2	0%
40-50	1,089.3	17.5%	130-140	0.2	0%
50-60	958.6	15.4%	140-150	0.1	0%
60-70	736.7	11.8%	150-160	0.1	0%
70-80	481.2	7.7%	160-170	0.1	0%
80-90	133.2	2.1%	170-180	0.1	0%



**Illuminance at a Distance**

	Center Beam fc	Beam Width	
16.7ft	8.23 fc	42.1 ft	46.3 ft
33.3ft	2.07 fc	83.9 ft	92.4 ft
50.0ft	0.92 fc	125.9 ft	138.8 ft
66.7ft	0.52 fc	168.0 ft	185.1 ft
83.3ft	0.33 fc	209.8 ft	231.2 ft
100.0ft	0.23 fc	251.9 ft	277.5 ft

Vert. Spread: 103.1°  
Horiz. Spread: 108.4°

**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.09	1.04	.99	.95	1.06	1.01	.97	.84	.97	.94	.91	.93	.91	.88	.90	.87	.85	.83
2	.99	.90	.83	.78	.96	.88	.82	.71	.85	.79	.75	.82	.77	.73	.78	.75	.71	.69
3	.90	.79	.71	.65	.87	.78	.70	.60	.75	.68	.63	.72	.66	.62	.69	.65	.61	.58

4	.82	.70	.62	.55	.80	.69	.61	.52	.66	.59	.54	.64	.58	.53	.62	.57	.52	.50
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.46	.40	.51	.45	.40	.38
7	.65	.51	.43	.37	.63	.51	.42	.35	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8	.61	.47	.39	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.43	.36	.32	.30
9	.57	.43	.35	.29	.55	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.27	.37	.31	.26	.37	.31	.26	.25

**Candela Table - Type C**

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	2296	2296	2296	2296	2296	2296	2296	2296	2296	2296	2296	2296	2296	2296	2296	2296	2296
1	2295	2295	2296	2296	2295	2296	2295	2295	2296	2296	2296	2296	2296	2296	2296	2295	2295
2	2294	2293	2294	2295	2294	2294	2293	2294	2295	2294	2295	2294	2295	2295	2295	2294	2294
3	2291	2290	2291	2292	2291	2291	2290	2291	2292	2292	2292	2292	2293	2293	2293	2291	2291
4	2286	2286	2287	2288	2288	2288	2286	2287	2289	2289	2288	2289	2290	2290	2290	2287	2286
5	2281	2282	2282	2284	2284	2283	2281	2283	2284	2284	2284	2284	2286	2286	2286	2282	2281
6	2275	2275	2277	2279	2279	2278	2276	2277	2279	2279	2279	2279	2282	2281	2281	2276	2275
7	2268	2268	2270	2274	2273	2271	2269	2270	2272	2272	2273	2273	2275	2275	2275	2269	2268
8	2259	2260	2262	2267	2266	2264	2262	2261	2264	2264	2265	2266	2269	2268	2267	2261	2259
9	2250	2251	2254	2258	2257	2257	2254	2253	2255	2255	2257	2258	2262	2261	2260	2252	2250
10	2240	2241	2244	2249	2250	2247	2244	2242	2246	2246	2248	2250	2254	2252	2251	2241	2240
11	2228	2230	2233	2240	2239	2238	2234	2231	2235	2235	2237	2240	2245	2242	2240	2230	2228
12	2215	2217	2222	2229	2229	2226	2223	2219	2222	2223	2226	2229	2234	2232	2229	2217	2215
13	2202	2204	2210	2218	2218	2215	2210	2207	2209	2211	2215	2217	2223	2220	2217	2205	2202
14	2187	2190	2197	2205	2205	2203	2197	2193	2195	2197	2202	2205	2211	2208	2205	2190	2187
15	2172	2175	2182	2192	2192	2190	2183	2178	2180	2182	2188	2192	2198	2194	2190	2175	2172
16	2155	2159	2167	2178	2179	2175	2168	2162	2164	2167	2173	2177	2185	2180	2176	2159	2155
17	2138	2142	2150	2163	2163	2160	2152	2145	2147	2150	2157	2162	2171	2166	2160	2142	2138
18	2119	2124	2134	2147	2147	2144	2136	2128	2129	2132	2140	2147	2155	2149	2143	2124	2119
19	2100	2105	2116	2130	2131	2127	2119	2109	2110	2114	2123	2130	2139	2133	2125	2106	2100
20	2080	2086	2097	2114	2114	2110	2100	2089	2091	2095	2105	2112	2122	2114	2106	2086	2080
21	2059	2066	2077	2094	2096	2091	2082	2070	2071	2075	2086	2094	2104	2096	2087	2065	2059
22	2037	2044	2057	2075	2077	2072	2062	2048	2049	2055	2066	2074	2086	2077	2066	2044	2037
23	2014	2022	2036	2055	2057	2052	2041	2026	2027	2033	2045	2054	2065	2057	2045	2022	2014
24	1991	2000	2014	2034	2036	2031	2020	2004	2003	2010	2023	2033	2045	2036	2023	1999	1991
25	1967	1976	1991	2012	2015	2010	1998	1980	1979	1986	2001	2011	2024	2014	2000	1975	1967
26	1942	1951	1967	1990	1993	1988	1975	1956	1954	1962	1977	1989	2002	1991	1976	1951	1942
27	1917	1926	1943	1966	1969	1964	1951	1931	1929	1936	1954	1966	1979	1967	1952	1926	1917
28	1890	1900	1918	1943	1945	1940	1926	1905	1903	1912	1929	1942	1956	1943	1927	1900	1890
29	1863	1873	1892	1918	1921	1916	1901	1878	1876	1886	1904	1917	1931	1918	1901	1873	1863
30	1836	1846	1866	1893	1896	1891	1875	1851	1848	1859	1878	1891	1906	1893	1874	1845	1836
31	1807	1818	1839	1867	1870	1865	1848	1824	1820	1832	1851	1865	1881	1866	1847	1818	1807
32	1779	1790	1812	1840	1843	1839	1821	1795	1792	1803	1823	1838	1854	1839	1819	1789	1779
33	1749	1761	1783	1812	1816	1811	1793	1766	1762	1774	1795	1811	1826	1812	1791	1760	1749
34	1720	1732	1755	1784	1788	1784	1764	1737	1732	1745	1767	1782	1799	1783	1762	1731	1720
35	1689	1702	1725	1755	1760	1756	1734	1707	1702	1716	1738	1754	1770	1754	1732	1700	1689
36	1658	1671	1695	1726	1730	1727	1705	1676	1671	1685	1708	1724	1741	1724	1702	1670	1658
37	1627	1640	1665	1697	1701	1697	1675	1645	1640	1654	1678	1695	1712	1694	1672	1638	1627
38	1595	1608	1634	1666	1671	1667	1644	1614	1608	1623	1647	1664	1682	1664	1641	1607	1595
39	1564	1577	1603	1636	1640	1636	1612	1582	1576	1591	1616	1634	1651	1633	1609	1575	1564
40	1531	1545	1571	1604	1609	1605	1580	1550	1544	1559	1583	1603	1620	1601	1577	1543	1531
41	1498	1512	1540	1573	1578	1574	1548	1517	1512	1527	1552	1571	1588	1569	1545	1511	1498
42	1465	1478	1507	1541	1545	1542	1516	1484	1479	1494	1519	1539	1557	1537	1512	1478	1465
43	1432	1445	1474	1508	1513	1510	1483	1451	1446	1461	1486	1506	1524	1504	1479	1445	1432
44	1398	1412	1441	1475	1480	1477	1450	1417	1413	1428	1454	1474	1492	1471	1446	1411	1398
45	1365	1378	1408	1442	1448	1444	1416	1384	1379	1394	1420	1440	1459	1437	1412	1377	1365
46	1331	1344	1375	1409	1414	1410	1382	1349	1346	1360	1386	1407	1426	1404	1378	1343	1331

47	1297	1310	1341	1376	1381	1377	1348	1316	1312	1325	1352	1373	1393	1370	1343	1308	1297
48	1262	1275	1307	1342	1348	1344	1315	1281	1278	1291	1318	1340	1360	1336	1309	1274	1262
49	1228	1240	1272	1308	1314	1310	1280	1247	1244	1256	1283	1306	1327	1303	1274	1240	1228
50	1194	1206	1238	1275	1281	1276	1245	1212	1209	1221	1249	1273	1293	1269	1239	1205	1194
51	1160	1171	1204	1241	1248	1243	1211	1177	1174	1187	1215	1239	1260	1235	1204	1170	1160
52	1125	1136	1169	1207	1215	1208	1176	1142	1139	1151	1180	1205	1227	1201	1169	1135	1125
53	1091	1101	1135	1174	1182	1175	1142	1107	1105	1117	1146	1172	1194	1168	1135	1100	1091
54	1056	1067	1101	1140	1149	1142	1107	1072	1069	1081	1111	1139	1161	1134	1100	1065	1056
55	1021	1031	1066	1107	1117	1108	1073	1037	1034	1046	1076	1105	1128	1101	1065	1030	1021
56	986	997	1032	1074	1085	1075	1038	1002	999	1011	1042	1073	1095	1068	1031	995	986
57	952	961	998	1041	1052	1043	1004	967	964	976	1008	1040	1063	1036	997	960	952
58	916	927	965	1009	1021	1010	970	932	929	941	974	1008	1031	1003	963	925	916
59	881	891	931	976	989	977	937	897	893	906	939	976	1000	971	928	889	881
60	846	857	898	944	958	946	904	863	859	871	907	945	968	939	895	854	846
61	811	821	865	913	927	914	871	827	823	836	873	913	937	908	861	820	811
62	775	787	833	882	898	882	838	793	788	801	840	882	907	877	828	785	775
63	740	753	801	851	869	852	806	758	753	766	807	851	879	846	795	750	740
64	705	718	769	822	843	822	774	724	718	732	775	822	851	816	763	716	705
65	670	684	738	794	817	794	742	691	683	697	744	794	825	788	731	682	670
66	635	650	707	767	791	766	711	657	648	663	712	767	799	761	699	648	635
67	601	617	676	741	766	740	681	624	614	630	681	741	774	735	668	614	601
68	566	584	646	716	741	714	650	590	579	596	651	715	749	710	638	580	566
69	532	551	617	691	717	690	620	557	544	563	621	691	725	685	608	548	532
70	497	519	589	666	693	665	592	526	510	531	592	666	701	661	579	515	497
71	463	487	562	641	670	640	565	493	476	499	565	642	677	636	552	483	463
72	429	456	537	617	646	616	539	462	442	467	539	618	653	613	526	451	429
73	396	426	512	592	622	592	513	431	409	437	514	594	629	589	502	420	396
74	362	396	487	568	598	569	488	402	376	407	490	571	604	566	477	390	362
75	329	366	463	543	573	544	464	372	343	377	466	546	578	542	453	360	329
76	298	338	439	517	546	520	440	343	311	348	442	521	549	517	430	331	298
77	266	309	415	489	516	493	417	315	280	320	420	494	516	489	407	303	266
78	235	282	391	457	479	462	394	287	249	292	396	463	477	458	384	276	235
79	205	257	367	419	436	427	370	261	219	266	372	427	432	420	359	249	205
80	177	233	340	373	380	382	344	237	190	242	345	383	374	374	331	226	177
81	149	211	307	318	321	328	313	214	162	219	314	328	317	317	298	204	149
82	123	189	268	262	266	271	276	192	135	197	277	273	260	262	258	183	123
83	99	168	219	210	210	218	228	171	111	176	231	218	206	209	210	162	99
84	78	144	168	157	158	165	178	148	88	152	181	167	154	157	161	137	78
85	58	116	121	109	106	115	130	122	67	127	132	116	103	107	114	109	58
86	42	83	76	62	60	68	85	92	49	96	87	69	57	59	70	76	42
87	27	48	36	21	18	26	43	57	34	61	46	26	15	18	31	43	27
88	16	19	7	4	3	5	11	26	21	29	12	3	3	4	6	16	16
89	5	4	2	2	2	2	3	7	10	8	3	2	2	2	2	3	5
90	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1
91	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
92	1	1	1	1	0	0	0	1	1	1	0	1	1	1	1	1	1
93	1	1	1	1	0	0	0	1	1	1	0	1	1	1	1	1	1
94	1	1	1	1	0	0	0	1	1	1	0	1	0	0	0	1	1
95	1	1	1	1	0	0	0	0	1	1	0	1	0	0	0	1	1

96	1	1	1	1	0	0	0	0	1	1	0	1	0	0	0	1	1
97	1	1	0	0	0	0	0	0	2	1	0	1	0	0	0	1	1
98	1	1	0	0	0	0	0	0	2	1	0	0	0	0	0	1	1
99	1	1	0	0	0	0	0	0	2	1	0	0	0	0	0	1	1
100	1	1	0	0	0	0	0	0	2	1	0	0	0	0	0	1	1
101	1	1	0	0	0	0	0	0	2	1	0	0	0	0	0	1	1
102	1	1	0	0	0	0	0	0	2	1	0	0	0	0	0	1	1
103	1	1	0	0	0	0	0	0	2	1	0	0	0	0	0	1	1
104	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1
105	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1
106	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1
107	1	1	0	1	0	0	0	0	1	1	0	0	0	0	0	1	1
108	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1	1
109	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	1
110	1	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1
111	1	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1
112	1	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1
113	1	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1
114	1	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1
115	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1
116	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
117	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
118	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
119	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
120	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
121	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
122	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
123	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0
124	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0
125	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
126	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
127	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
128	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
129	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
130	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	0	0
131	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	0	0
132	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	0	0
133	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	0	0
134	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
135	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
136	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
137	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
138	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
139	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
141	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
142	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
143	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
144	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

145	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
146	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
147	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
148	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
149	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
150	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
152	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
153	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
154	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
156	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
157	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
158	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
159	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
161	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
162	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1
163	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1
164	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1
165	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1
166	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1
167	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1
168	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1
169	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1
170	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1
171	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1
172	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1
173	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	1	1
174	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1
175	1	1	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1
176	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1
177	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1
178	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	1	1
179	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1
180	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

<b>Luminaire Report Summary</b>
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IESNA:LM-63-2002

[TEST]

[TESTDATE] 2017-11-17

[TESTLAB] Standard-Tech Co. Ltd

[ISSUEDATE] 2017-11-17 19:56:59

[MANUFAC] SARIN Energy Inc.

[LUMINAIRE] SES-TR24DN40-4000- 50 277V

[\_TOTALLUMINAIRELUMENS] 6235.4

[\_LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000\_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 216.80

216.80 3.48 3.4810- 20 616.13 832.93 13.36 13.3620- 30 919.16 1752.09 28.10

28.1030- 40 1082.10 2834.19 45.45 45.4540- 50 1089.56 3923.75 62.92 62.9250- 60

958.79 4882.55 78.30 78.3060- 70 736.69 5619.24 90.11 90.1170- 80 481.09 6100.33

97.83 97.8380- 90 133.21 6233.54 99.96 99.9690-100 0.65 6234.19 99.97 99.97100-110

0.52 6234.72 99.98 99.98110-120 0.36 6235.07 99.99 99.99120-130 0.23 6235.30 99.99

99.99130-140 0.18 6235.47 99.99 99.99140-150 0.15 6235.62 99.99 99.99150-160 0.15

6235.77 100.00 100.00160-170 0.12 6235.88 100.00 100.00170-180 0.05 6235.94 100.00

100.00

FILE: CREATED USING ABSOLUTE PHOTOMETRY

FILE: CANDELA MULTIPLIER: 1

FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17

FILE: COORDINATE SYSTEM: TYPE C

FILE: UNIT OF MEASURE: METRIC

FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.